

Title (en)

COMBINATION OF MULTI-MODALITY IMAGING TECHNOLOGIES

Title (de)

KOMBINATION VON MULTIMODALITÄTS-BILDGEBUNGSTECHNOLOGIEN

Title (fr)

COMBINAISON DE TECHNOLOGIES D'IMAGERIE A MODALITES MULTIPLES

Publication

**EP 1755446 A4 20071031 (EN)**

Application

**EP 05750845 A 20050513**

Priority

- US 2005016984 W 20050513
- US 57136604 P 20040514

Abstract (en)

[origin: WO2005112753A2] Different applications for multiple imaging technologies are provided to advance patient care. In one aspect, a 3-D imaging device is used to identify the location of target region in a patient, such as a tumor or aneurysm, for instance. The location information is then used to control a device used in performing a surgical or other intervention, further imaging or a diagnostic or therapeutic procedure (920). The device can operate fully automatically, as a robot, or can assist a manual procedure performed by a physician. In another aspect, the invention provides a technique for obtaining an improved image of the vasculature in a patient (1020). In another aspect, images from multiple imaging technologies are combined or fused (1120) to achieve synergistic benefits.

IPC 8 full level

**A61B 5/05** (2006.01); **A61B 6/00** (2006.01); **A61B 6/03** (2006.01); **G06T 3/00** (2006.01); **A61B 5/055** (2006.01); **A61B 8/00** (2006.01); **A61B 19/00** (2006.01)

CPC (source: EP US)

**A61B 6/032** (2013.01 - EP US); **A61B 6/037** (2013.01 - EP US); **A61B 6/466** (2013.01 - EP US); **A61B 6/481** (2013.01 - EP US); **A61B 6/504** (2013.01 - EP US); **A61B 6/507** (2013.01 - EP US); **A61B 6/583** (2013.01 - EP US); **A61B 34/30** (2016.02 - EP US); **A61B 90/10** (2016.02 - EP US)

Citation (search report)

- [X] DE 10045779 A1 20020221 - BOESECKE ROBERT [DE]
- [X] WO 03041057 A2 20030515 - UNIV JOHNS HOPKINS [US]
- [X] WO 0222015 A2 20020321 - UNIV JOHNS HOPKINS [US], et al
- See references of WO 2005112753A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**WO 2005112753 A2 20051201**; **WO 2005112753 A3 20060406**; CA 2565745 A1 20051201; EP 1755446 A2 20070228; EP 1755446 A4 20071031; US 2008281181 A1 20081113

DOCDB simple family (application)

**US 2005016984 W 20050513**; CA 2565745 A 20050513; EP 05750845 A 20050513; US 58746708 A 20080324